

# Environmental Science

Associate of Science (AS) Degree

Program Requirements .....	20
Additional Requirements.....	8
General Education/MnTC .....	32
Total Credits .....	60

## Program Information

The Associate of Science (AS) in Environmental Science degree program prepares individuals for the first two years of a bachelor's degree related to environmental science or environmental studies. For assistance in program planning, or to explore additional transfer options, students should schedule a time to meet with an academic advisor. This degree may transfer in part or in its entirety to baccalaureate institutions. Students should meet with a representative of the transfer institution when planning their program.

## Program Goals

By completing this program, students will achieve the following learning goals:

1. Demonstrate comprehension of ecosystem structure and function;
2. Explain the nature and dynamics of biological communities;
3. Examine the importance of sustainability in the management of economically and ecologically important resources;
4. Explore how sustainability can be incorporated into people's world-views and ethics;
5. Demonstrate application of critical thinking and the process of science in classroom and in field studies; and
6. Evaluate and describe significant environmental dilemmas and the considerations used to find solutions.

## Developmental Courses

Some students may need preparatory courses in the areas of English, mathematics, or reading. Courses numbered below 1000 will not apply toward this degree.

## Completion Requirements

- A minimum of 60 semester credits in courses numbered 1000 or above.
- A minimum cumulative grade point average (GPA) of 2.0 in courses numbered 1000 or above at ARCC.
- Satisfy residency requirements.
- A minimum grade of C must be earned in all program requirements.
- Completion of specific degree requirements.
- To complete your program, please submit the appropriate application found [here](#).
- The requirements of this program are subject to change without notice.

## Program Requirements: 20 credits

- |                          |            |                                 |   |
|--------------------------|------------|---------------------------------|---|
| <input type="checkbox"/> | BIOL 1106  | Principles of Biology I.....    | 4 |
| <input type="checkbox"/> | BIOL 1107♦ | Principles of Biology II .....  | 4 |
| <input type="checkbox"/> | BIOL 2206♦ | Animal Biology.....             | 4 |
|                          | <b>OR</b>  |                                 |   |
| <input type="checkbox"/> | BIOL 2207♦ | Plant Biology .....             | 4 |
| <input type="checkbox"/> | CHEM 1061♦ | Principles of Chemistry I.....  | 4 |
| <input type="checkbox"/> | CHEM 1062♦ | Principles of Chemistry II..... | 4 |

## Additional Requirements: 8 credits

Select a minimum of 8 credits from the following:

- |                          |            |                                    |     |
|--------------------------|------------|------------------------------------|-----|
| <input type="checkbox"/> | BIOL 2201♦ | Microbiology .....                 | 4   |
| <input type="checkbox"/> | BIOL 2206♦ | Animal Biology.....                | 4   |
| <input type="checkbox"/> | BIOL 2207♦ | Plant Biology .....                | 4   |
| <input type="checkbox"/> | BIOL 2209♦ | General Ecology.....               | 4   |
| <input type="checkbox"/> | BIOL 2230^ | Directed Research in Biology ..... | 2-4 |
| <input type="checkbox"/> | NATS 1005  | Meteorology .....                  | 4   |

## General Education/MnTC Requirements: 32 credits

Complete at least 32 credits in courses from the Minnesota Transfer Curriculum (MnTC), including all courses listed. You must complete at least one course in six of the ten goal areas. One course may satisfy more than one goal area, but the course credits may be counted only once.

- |                          |                                       |   |     |
|--------------------------|---------------------------------------|---|-----|
| <input type="checkbox"/> | 1. Communication                      |   |     |
|                          | <input type="checkbox"/>              | ENGL 1120♦ <b>OR</b> ENGL 1121♦ .....                   | 4   |
|                          | <input type="checkbox"/>              | CMST 1110 <b>OR</b> CMST 2215 <b>OR</b> CMST 2220 ..... | 3   |
| <input type="checkbox"/> | 2. Critical Thinking                  |   |     |
| <input type="checkbox"/> | 3. Natural Science                    |   |     |
|                          | <input type="checkbox"/>              | NATS 1003 .....   | 4   |
| <input type="checkbox"/> | 4. Mathematical/Logical Reasoning     |   |     |
|                          | <input type="checkbox"/>              | MATH 1114♦ <b>OR</b> MATH 1200♦ .....                   | 3-4 |
| <input type="checkbox"/> | 5. History/Social/Behavioral Sciences |   |     |
|                          | <input type="checkbox"/>              | ANTH 1110/GEOG 1110 <b>OR</b> POLS 1141 .....           | 3   |
| <input type="checkbox"/> | 6. Humanities/Fine Arts               |   |     |
| <input type="checkbox"/> | 7. Human Diversity                    |   |     |
| <input type="checkbox"/> | 8. Global Perspective                 |   |     |
| <input type="checkbox"/> | 9. Ethical/Civic Responsibility       |   |     |
|                          | <input type="checkbox"/>              | PHIL 1120 .....   | 3   |
| <input type="checkbox"/> | 10. People and the Environment        |   |     |
|                          | <input type="checkbox"/>              | BIOL 1103 .....   | 3   |
|                          | <input type="checkbox"/>              | BIOL 1133* .....  | 1   |
- \*Must be taken either concurrently or after taking BIOL 1103.*

## Program Sequence:

The sequence that follows is suggested for full-time students. Part-time students will need more time to complete this program; many courses are offered in the evening.

	Fall Semester	Spring Semester
1 <sup>st</sup> YEAR	BIOL 1103.....	BIOL 1106.....
	BIOL 1133.....	CHEM 1062.....
	CHEM 1061.....	GenEd or Electives.....
	ENGL 1120/1121 .....	<b>TOTAL .....</b>
	MATH 1114 or 1200 .....	<b>14-16</b>
	<b>TOTAL .....</b>	
	<b>15-16</b>	
2 <sup>nd</sup> YEAR	Fall Semester	Spring Semester
	BIOL 1107 .....	BIOL 2206 or 2207 .....
	NATS 1003 .....	GenEd or Electives.....
	GenEd or Electives.....	<b>TOTAL .....</b>
	<b>TOTAL .....</b>	<b>14-16</b>

♦ *Course has prerequisite - see course schedule or catalog description.*

^ *Course requires Instructor permission.*

NOTE: You are encouraged to contact an academic advisor at 763-433-1230 for course planning assistance and information about transfer credit evaluation and transfer options.



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